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10/551,620	11/28/2006	Nicholas William Anderson	361381US8PCT	5901

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OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, L.L.P.
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ALEXANDRIA, VA 22314

EXAMINER

DANIEL JR, WILLIE J

ART UNIT	PAPER NUMBER
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2617

NOTIFICATION DATE	DELIVERY MODE
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04/05/2011

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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Office Action Summary	Application No. 10/551,620	Applicant(s) ANDERSON, NICHOLAS WILLIAM	
	Examiner WILLIE J. DANIEL JR	Art Unit 2617	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 21 March 2011.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-3,5,7-30 and 32-37 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-3,5,7-30 and 32-37 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

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DETAILED ACTION

1. This action is in response to applicant's amendment filed on 21 March 2011. **Claims 1-3, 5, 7-30, and 32-37** are now pending in the present application and **claims 4, 6, and 31** are canceled. This office action is made **Non-Final**.

Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 21 March 2011 has been entered.

Claim Rejections - 35 USC § 112

3. The 112 rejections applied to the claims are withdrawn.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-3, 5, 7-13, 16-25, 27-29, and 32-37 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Cao et al.** (hereinafter **Cao**) (**US 6,647,005 B1**) in view of **Ozluturk et al.** (hereinafter **Ozluturk**) (**US 7,710,927 B2**).

Regarding **claims 1 and 29**, Cao discloses an apparatus for transmitting user equipment specific update control information from a base station (e.g., BS) to a user equipment (e.g., mobile station MS) in a cellular communication system (see col. 3, lines 8-17; Fig. 10),

the apparatus comprising:

a processor (e.g., BS) that combines user equipment specific information for a plurality of user equipment to generate combined user equipment specific update control information (see col. 3, lines 15-17; col. 4, lines 30-35,40-45; Fig. 10), where the system multiplexes information for multiple users;

a encode processor (e.g., BS) that encodes the combined user equipment specific update control information for at least two of the plurality of user equipment (see col. 2, line 66 - col. 3, line 2; col. 3, lines 15-18,63-67; col. 4, lines 3-5,38-45,49-51,60-62; Fig. 10); and

a transmitter (e.g., BS) for transmitting the jointly encoding combined user equipment specific information in a single allocation of transmission resource (e.g., frame or slot) (see

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col. 3, lines 15-17, 20,63-67; col. 4, lines 38-45; Fig. 10). Cao inexplicitly discloses having the feature(s) encoding processor; encoding; wherein forward error correction is applied to the combined user equipment for the plurality of user equipment. However, the examiner maintains that the feature(s) encoding processor; encoding was well known in the art, as taught by Ozluturk.

In the same field of endeavor, Ozluturk discloses the feature(s) encoding processor; encoding { (see col. 11, lines 27-46) };

wherein forward error correction is applied to the combined user equipment for the plurality of user equipment { (see col. 11, lines 27-46) }.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Cao and Ozluturk to have the feature(s) encoding processor; encoding wherein forward error correction is applied to the combined user equipment for the plurality of user equipment, in order to provide a system that supports communications while utilizing minimum amount of bandwidth, as taught by Ozluturk (see col. 1, lines 56-59).

Regarding **claim 2**, the combination of Cao and Ozluturk discloses every limitation claimed, as applied above (see claim 1), in addition Cao further discloses an apparatus as claimed in claim 1 wherein the transmitter is operable to transmit the encoded combined user equipment specific update control information in a single allocation of transmission resource is a time slot (see col. 3, lines 15-17, 20,63-67; col. 4, lines 38-45; Fig. 10).

Regarding **claim 3**, the combination of Cao and Ozluturk discloses every limitation claimed, as applied above (see claim 1), in addition Cao further discloses an apparatus as

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claimed in claim 1 wherein the transmitter is operable to transmit the encoded combined user equipment specific update control information in a single allocation of transmission resource is a single time code frequency resource allocation unit (see col. 3, lines 15-17, 20,63-67; col. 4, lines 38-45; Fig. 10).

Regarding **claim 5**, Cao discloses an apparatus as claimed in claim 1 wherein the encoding processor for encoding is encodes user equipment specific information associated with all user equipment of the plurality of user equipment (see col. 4, lines 3-5,38-45,49-51,60-62; Fig. 10). Cao inexplicitly discloses having the feature(s) encoding processor; encoding. However, the examiner maintains that the feature(s) encoding processor; encoding was well known in the art, as taught by Ozluturk.

Ozluturk further discloses the feature(s) encoding processor; encoding { (see col. 11, lines 27-46) }.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Cao and Ozluturk to have the feature(s) encoding processor; encoding, in order to provide a system that supports communications while utilizing minimum amount of bandwidth, as taught by Ozluturk (see col. 1, lines 56-59).

Regarding **claims 7 and 32**, Cao discloses an apparatus as claimed in claim 1 wherein the user equipment specific update control information comprises a plurality of parameters each having a number of possible values, and wherein the encoding processor for encoding encodes the plurality of parameters by encoding a combined parameter having a combined number of possible values equal to the product of the number of possible values of the

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plurality of parameters (see col. 4, lines 3-5,38-45,49-51,60-62; Fig. 10). Cao inexplicitly discloses having the feature(s) encoding processor; encoding. However, the examiner maintains that the feature(s) encoding processor; encoding was well known in the art, as taught by Ozluturk.

Ozluturk further discloses the feature(s) encoding processor; encoding { (see col. 11, lines 27-46) }.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Cao and Ozluturk to have the feature(s) encoding processor; encoding, in order to provide a system that supports communications while utilizing minimum amount of bandwidth, as taught by Ozluturk (see col. 1, lines 56-59).

Regarding **claim 8**, the combination of Cao and Ozluturk discloses every limitation claimed, as applied above (see claim 1), in addition Cao further discloses an apparatus as claimed in claim 1 wherein the user equipment specific update control information comprises power control information (see col. 3, lines 25-30).

Regarding **claim 9**, the combination of Cao and Ozluturk discloses every limitation claimed, as applied above (see claim 1), in addition Cao further discloses an apparatus as claimed in claim 1 wherein the user equipment specific update control information comprises synchronisation information (see col. 3, lines 25-30; Fig. 10).

Regarding **claim 10**, the combination of Cao and Ozluturk discloses every limitation claimed, as applied above (see claim 1), in addition Cao further discloses an apparatus as

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claimed in claim 1 wherein the user equipment specific update control information comprises only synchronisation information (see col. 3, lines 25-30; Fig. 10).

Regarding **claim 11**, the combination of Cao and Ozluturk discloses every limitation claimed, as applied above (see claim 1), in addition Cao further discloses an apparatus as claimed in claim 1 wherein the user equipment specific update control information is associated with an uplink channel from each of the plurality of user equipment (see col. 4, lines 13-15; Fig. 10).

Regarding **claim 12**, the combination of Cao and Ozluturk discloses every limitation claimed, as applied above (see claim 1), in addition Cao further discloses an apparatus as claimed in claim 1 further comprising a controller (e.g., BS) for setting a transmit power for encoded combined user equipment specific update control information in response to a transmit power requirement of the plurality of user equipment (see col. 3, lines 15-17; col. 4, lines 13-15,30-35,40-45; Fig. 10).

Regarding **claim 13**, the combination of Cao and Ozluturk discloses every limitation claimed, as applied above (see claim 1), in addition Cao further discloses an apparatus as claimed in claim 1 wherein the transmitter is capable of transmitting position information indicative of a position of user equipment specific update control information for a first user equipment (see col. 4, lines 13-15,60-62; Fig. 10).

Regarding **claim 16**, Cao discloses an apparatus as claimed claim 1 wherein the encode processor for encoding encodes the combined user equipment specific information by using processing algorithms of a group of algorithms used by a plurality of services (see col. 4, lines 3-5,38-45,49-51,60-62; Fig. 10). Cao inexplicitly discloses having the feature(s)

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encode processor; encoding. However, the examiner maintains that the feature(s) encoding processor; encoding was well known in the art, as taught by Ozluturk.

Ozluturk further discloses the feature(s) encoding processor; encoding { (see col. 11, lines 27-46) }.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Cao and Ozluturk to have the feature(s) encoding processor; encoding, in order to provide a system that supports communications while utilizing minimum amount of bandwidth, as taught by Ozluturk (see col. 1, lines 56-59).

Regarding **claim 17**, the combination of Cao and Ozluturk discloses every limitation claimed, as applied above (see claim 1), in addition Cao further discloses an apparatus as claimed in claim 1 further comprising means for transmitting position information indicative of a position of user equipment specific information for a first user equipment (see col. 4, lines 13-15,60-62; Fig. 10).

Regarding **claim 18**, the combination of Cao and Ozluturk discloses every limitation claimed, as applied above (see claim 16), in addition Cao further discloses an apparatus as claimed in claim 16 wherein the cellular communication system is the UTRA (UMTS (Universal Mobile Telecommunication System) Terrestrial Radio Access) TDD cellular communication system specified by the 3rd Generation Partnership Project (see col. 3, lines 8-17; Fig. 10).

Regarding **claim 19**, the combination of Cao and Ozluturk discloses every limitation claimed, as applied above (see claim 18), in addition Cao further discloses an apparatus as

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claimed in claim 18 wherein the user equipment specific update control information consists of Transmit Power Control (TPC) and Synchronisation Shift (SS) data (see col. 3, lines 25-30; Fig. 10).

Regarding **claim 20**, the combination of Cao and Ozluturk discloses every limitation claimed, as applied above (see claim 1), in addition Cao further discloses an apparatus as claimed in claim 1 further comprising a processor (e.g., BS) for determining a transmit power of the encoded combined user equipment specific control information in response to a number of user equipment for which the encoded combined user equipment specific control information comprises user equipment specific update control information (see col. 3, lines 15-17,25-30; col. 4, lines 13-15, 30-35,40-45,60-62; Fig. 10).

Regarding **claim 21**, Cao discloses an apparatus as claimed in claim 1 further comprising a processor (e.g., BS) for determining an encoding process for the encoded combined user equipment specific control information in response to a number of user equipment for which the encoded combined user equipment specific control information user equipment specific update control information (see col. 4, lines 3-5,38-45,49-51,60-62; Fig. 10). Cao inexplicitly discloses having the feature(s) encoding. However, the examiner maintains that the feature(s) encoded was well known in the art, as taught by Ozluturk.

Ozluturk further discloses the feature(s) encoded { (see col. 11, lines 27-46) }.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Cao and Ozluturk to have the feature(s) encoded, in order to provide a system that supports communications while utilizing minimum amount of bandwidth, as taught by Ozluturk (see col. 1, lines 56-59).

Regarding **claim 22**, the combination of Cao and Ozluturk discloses every limitation claimed, as applied above (see claim 21), in addition Cao further discloses an apparatus as claimed in claim 21 wherein the encoded combined user equipment specific control information does not comprise verification data (see col. 4, lines 38-45,49-51,60-62; Fig. 10).

Regarding **claim 23**, the combination of Cao and Ozluturk discloses every limitation claimed, as applied above (see claim 1), in addition Cao further discloses an apparatus as claimed in claim 1 wherein the transmitter for transmitting is operable to transmit user equipment specific information for a first user in intermittent single allocation of transmission resource (see col. 4, lines 38-45,49-51,60-62; Fig. 10).

Regarding **claim 24**, the combination of Cao and Ozluturk discloses every limitation claimed, as applied above (see claim 1), in addition Cao further discloses an apparatus as claimed in claim 1 wherein the transmitter is operable to transmit the combined user equipment specific update control information in a single allocation of transmission resource that corresponds to a minimum size transmission block of user equipment specific update control information which can be transmitted by the transmitter (see col. 4, lines 38-45,49-51,60-62; Fig. 10).

Regarding **claim 25**, the combination of Cao and Ozluturk discloses every limitation claimed, as applied above (see claim 1), in addition Cao further discloses an apparatus as claimed in claim 1 wherein the apparatus is a base station (see col. 4, lines 13-19; Fig. 10).

Regarding **claims 26 and 30**, Cao discloses a user equipment (e.g., mobile station MS) for receiving user equipment specific update control information from a base station (e.g., BS) in a cellular communication system (see col. 3, lines 8-17; Fig. 10),

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the user equipment (e.g., MS) comprising:

a receiver that receives encoded combined user equipment specific update control information for at least two of the plurality of user equipment in a common physical control channel received by the plurality of user equipment (see col. 3, lines 63-67; col. 4, lines 3-5,30-45,49-51,60-62; Fig. 10), where the system multiplexes information for multiple users; and

a decoder that decodes the combined user equipment specific update control information { (see col. 2, line 66 - col. 3, line 2; col. 4, lines 3-5,38-45), where decoding would be implicit to receive information as evidenced by the fact that one of ordinary skill in the art would clearly recognize; and

a processor that determines user specific information for the user equipment from the encoded combined user equipment specific update control information (see col. 3, lines 15-17,20,63-67; col. 4, lines 38-45; Fig. 10). Cao inexplicitly discloses having the feature(s) encoded; decoder, wherein the decoding comprises forward error correction decoding. However, the examiner maintains that the feature(s) encoded; decoder, wherein the decoding comprises forward error correction decoding was well known in the art, as taught by Ozluturk.

In the same field of endeavor, Ozluturk discloses the feature(s) encoded; { (see col. 11, lines 27-46) };

decoder, wherein the decoding comprises forward error correction decoding { (see col. 11, lines 27-46) }.

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Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Cao and Ozluturk to have the feature(s) encoded; decoder, wherein the decoding comprises forward error correction decoding, in order to provide a system that supports communications while utilizing minimum amount of bandwidth, as taught by Ozluturk (see col. 1, lines 56-59).

Regarding **claim 27**, Cao discloses a user equipment as claimed in claim 26 wherein the processor is decodes the encoded combined user equipment specific update control information and select the user equipment specific update control information for the user equipment (see col. 2, line 66 - col. 3, line 2; col. 4, lines 3-5,38-45), where decoding would be implicit to receive information as evidenced by the fact that one of ordinary skill in the art would clearly recognize. Cao inexplicitly discloses having the feature(s) decodes; encoded. However, the examiner maintains that the feature(s) encoding processor; encoding was well known in the art, as taught by Ozluturk.

Ozluturk further discloses the feature(s) decodes; encoded { (see col. 11, lines 27-46) }.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Cao and Ozluturk to have the feature(s) decodes; encoded, in order to provide a system that supports communications while utilizing minimum amount of bandwidth, as taught by Ozluturk (see col. 1, lines 56-59).

Regarding **claim 28**, Cao discloses a cellular communication system (see col. 3, lines 8-17; Fig. 10) comprising

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a first apparatus that transmits user equipment specific information from a base station (e.g., BS) to a user equipment (e.g., mobile station MS) (see col. 4, lines 13-15), the first apparatus comprising:

a processor (e.g., BS) that combines user equipment specific update control information for a plurality of user equipment to generate combined user equipment specific information (see col. 3, lines 15-17; col. 4, lines 30-35,40-45; Fig. 10), where the system multiplexes information for multiple users,

an encode processor (e.g., BS) that encodes the combined user equipment specific update control information for at least two of the plurality of user equipment, wherein coding is applied to the combined user equipment specific update control information for the plurality of user equipment (see col. 2, line 66 - col. 3, line 2; col. 3, lines 15-18,63-67; col. 4, lines 3-5,38-45,49-51,60-62; Fig. 10), and

a transmitter (e.g., BS) that transmits the combined user equipment specific update control information in a common physical control channel (e.g., frame or slot) received by the plurality of user equipment (see col. 3, lines 15-17, 20,63-67; col. 4, lines 38-45; Fig. 10); and

the user equipment (see col. 4, lines 13-15) comprising:

a receiver that receives encoded combined user equipment specific update control information for at least two of the plurality of user equipment (see col. 3, lines 63-67; col. 4, lines 3-5,30-45,49-51,60-62; Fig. 10), where the system multiplexes information for multiple users;

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a decoder that decodes the combined user equipment specific update control information { (see col. 2, line 66 - col. 3, line 2; col. 4, lines 3-5,38-45), where decoding would be implicit to receive information as evidenced by the fact that one of ordinary skill in the art would clearly recognize; and

a processor that determine user specific update control information for the user equipment from the encoded combined user equipment specific control information (see col. 3, lines 15-17,20,63-67; col. 4, lines 38-45; Fig. 10). Cao inexplicitly discloses having the feature(s) encode processor; encoding; wherein forward error correction coding is applied; decoder, wherein the decoding comprises forward error correction decoding. However, the examiner maintains that the feature(s) encode processor; encoding; wherein forward error correction coding is applied; decoder, wherein the decoding comprises forward error correction decoding was well known in the art, as taught by Ozluturk.

In the same field of endeavor, Ozluturk discloses the feature(s) encode processor; encoded; { (see col. 11, lines 27-46) };

wherein forward error correction coding is applied { (see col. 11, lines 27-46) };

decoder, wherein the decoding comprises forward error correction decoding { (see col. 11, lines 27-46) }.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Cao and Ozluturk to have the feature(s) encode processor; encoding; wherein forward error correction coding is applied; decoder, wherein the decoding comprises forward error correction decoding, in order to provide a

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system that supports communications while utilizing minimum amount of bandwidth, as taught by Ozluturk (see col. 1, lines 56-59).

Regarding **claims 33-37**, the claims as applied to claim 26 are rejected for the same reasons as set forth above in **claims 3, 27, 8, 11, and 13**, respectively.

Claim 14-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Cao et al.** (hereinafter Cao) (**US 6,647,005 B1**) in view of **Ozluturk et al.** (hereinafter Ozluturk) (**US 7,710,927 B2**) as applied to claim 1 above, and further in view of **Kim et al.** (hereinafter Kim) (**US 7,450,611 B2**).

Regarding **claim 14**, Cao discloses an apparatus as claimed in claim 1 wherein the user equipment specific information is control information associated with service (see col. 4, lines 13-15, 60-62; col. 3, lines 25-30; Fig. 10). The combination of Cao and Ozluturk does not specifically disclose having the feature(s) High Speed Downlink Packet Access (HSDPA) service. However, the examiner maintains that the feature(s) High Speed Downlink Packet Access (HSDPA) service was well known in the art, as taught by Kim.

In the same field of endeavor, Kim discloses the feature(s) High Speed Downlink Packet Access (HSDPA) service (see col. 9, lines 55-60; col. 12, lines 19-21).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Cao, Ozluturk, and Kim to have the feature(s) High Speed Downlink Packet Access (HSDPA) service, in order to provide an apparatus and method for transmitting and receiving information for user in an HSDPA communication system, as taught by Tsunehara (see col. 7, lines 34-39).

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Regarding **claim 15**, Cao discloses an apparatus as claimed in claim 14 wherein the user equipment specific information is associated with an uplink dedicated physical channel (DPCH) of the HSDPA downlink packet data service (see col. 4, lines 13-15,60-62; col. 3, lines 25-30; Fig. 10). The combination of Cao and Ozluturk does not specifically disclose having the feature(s) High Speed Downlink Packet Access (HSDPA) service. However, the examiner maintains that the feature(s) High Speed Downlink Packet Access (HSDPA) service was well known in the art, as taught by Kim.

In the same field of endeavor, Kim discloses the feature(s) High Speed Downlink Packet Access (HSDPA) service (see col. 9, lines 55-60; col. 12, lines 19-21).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Cao, Ozluturk, and Kim to have the feature(s) High Speed Downlink Packet Access (HSDPA) service, in order to provide an apparatus and method for transmitting and receiving information for user in an HSDPA communication system, as taught by Tsunehara (see col. 7, lines 34-39).

Response to Arguments

5. Applicant's arguments with respect to claims 1-3, 5, 7-30, and 32-37 have been considered but are moot in view of the new ground(s) of rejection necessitated by the amended language and/or new limitations.

In response to applicant's arguments, the Examiner respectfully disagrees as the applied reference(s) provide more than adequate support and to further clarify (see the above claims for relevant citations).

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to WILLIE J. DANIEL JR whose telephone number is (571)272-7907. The examiner can normally be reached on 8:30-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Appiah can be reached on (571) 272-7904. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information

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about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Willie J. Daniel, Jr./
Examiner, Art Unit 2617

WJD,Jr
28 March 2011